APPENDIX B Material Flow Diagram and Recycling Calculations: Calendar Year 2022	

Appendix B MSW CY 2022

Item	Material	Sources of Data	Total			
No.	Description		(tons/yr)	Comments		
0	Construction & Demo Debris Private Export* (Recycled & Landfilled)	Licensed Collector Reports under ER 5-13AM	217,126	Not County-managed, includes both disposed and recycled C & D		
1	Recycled via non-County Facilities	Collector, Processor, Business & Self-Hauler Rpts.	198,804	Filtered to avoid double-counting		
2	County Recycling Facility Material Sales	County TS & MRF	70,835	Outgoing to market from County Recycling Center & Penn Waste		
3	Mulch Loaded Out From TS	County Transfer Station (TS)	26,993	Scaled out as taken to County Mulch Contractor & Preserve Location		
4	Non-Processibles Recycled**	County TS	16,823	Not included in MRA recycling calculation		
5	Non-Processibles Landfilled**	County Trans. Stat'n. & Covanta	39,961	Not included in MRA recycling calculation		
6	RRF (MSW burned) Approx.	Covanta	483,439	Total tons loaded on rail to RRF Net of 6a		
6a	RRF (C&D Burned) Approx.	County Transfer Station (TS) Scale Records	78,422	In-Bound C&D less Outbound Non-Processibles Landfilled		
6b	By-pass (Accepted Processible Landfilled)	County TS Scale Out Records	12,562	MSW shipped to landfill		
60	By-pass (Accepted Processible Landfilled) C&D	County Transfer Station (TS) Scale Records	2,038	In-Bound C&D less Outbound Non-Processibles Landfilled		
7	Refuse Disposed Out of County	Hauler Reports	69,244	Private Sector MSW Collection not delivered to CountyTS		
8	All Incoming Leaves and Grass	Compost Facility	56,875	Includes 0 to Backup Composters		
9	Composting Residue to RRF	MES Scale Records	-	Reported by Compost Facility Manager		
10	Ferrous recovered at RRF	Covanta	11,815	Recovered from ash at County Facility		
10a	Ferrous recovered at RRF (C&D Residue)	Internal Calculation	1,916	Not included in MRA recycling calculation		
11	Ash Loaded to Ash Contractor	Republic Monthly Report	-	Total ash (includes 12, 12a, and 13)		
12	Ash outgoing from Ash	Republic Monthly Report	-	Not Included in MRA recycling calculation		
12a	Ash outgoing from Ash Recycler (C& D Residue)	Internal Calculation	-	Not included in MRA recycling calculation		
13	All Ash not recycled	Coventa Scale Records	-			

Montgomery County Recycling Rate and Waste Diversion Rate Calculations (MRA Method)			Denominator	Rate
Recycling Rate	(1 + 2 + 3 + 8 - 9 + 10) / (CMW - 4 - 5 -6a -6c)	365,321	918,751	39.76%
Recycling Rate with Source Reduction Credit				44.76%

Notes:

- * Construction and Demolition waste (C&D) is waste identified by place of origin construction or land clearing sites. C&D is reported on licensed hauler reports, but there may be additional C&D tons not reported and therefore not included in stream 0.
- ** Nonprocessibles are Construction & Demolition-type materials: not eligible for recycling credit, but are County-managed solid waste.
- *** Diversion Rate = Recycle Rate + 5.0% Source Reduction Credit

Nomenclature:

"C&D" means "Construction and Demolition" waste, exclusive of MSW, traditionally managed by the private sector, but much now comes to County TS. "CMW" means "County Management Waste". It includes all MSW, whether or not exported by private sector collectors, but only C&D delivered to TS. "MSW" stands for "Municipal Solid Waste", and represents the waste eligible for recycling under the State recycling law, regulations and guidelines. "TS" stands for the County's Transfer Station", located in Derwood, Maryland, just south of Gaithersburg.
"MRF" stands for Material Recovery Facility

"RRF" stands for Resource Recovery Facility

Total Waste Generation, Including C&D Exported by Private Sector (sum of streams 0 through 8)	
County-Managed Waste (CMW) = 1 + 2 + 3 + 4 + 5 + 6 + 6a +6b+6c+7+8	1,055,995
MSW Generated (County Managed Waste less streams 4, 5 6a and 6c)	918,751

553,430